



Attorney Docket No 884 889US1

SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

## United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **SYSTEM AND METHOD FOR SOFTWARE-PIPELINING OF LOOPS WITH SPARSE MATRIX ROUTINES.**

The specification of which was filed on June 30, 2003 as application serial no. 10/612724.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(c).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

**No such claim for priority is being made at this time.**

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

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I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Attorney Docket No.: 884.889US1  
 Serial No. 10/612724  
 Filing Date: June 30, 2003

Page 2 of 4

Aldous, Alan	Reg. No. 31,905	Greenwald, Bradley A.	Reg. No. 34,341	Peacock, Gregg A.	Reg. No. 45,001
Anglin, J. Michael	Reg. No. 24,916	Harris, Robert J.	Reg. No. 37,346	Perdok, Monique M.	Reg. No. 42,989
Arora, Suneel	Reg. No. 42,267	Huter, Jeffrey D.	Reg. No. 41,086	Pcret, Andrew R.	Reg. No. 41,246
Bacon, Shireen	Reg. No. 40,494	Jackson Huchsch, Katharine A.	Reg. No. 47,670	Peterson, David C.	Reg. No. 47,857
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Black, David W.	Reg. No. 42,331	Klima-Silberg, Catherine I.	Reg. No. 40,052	Reif, Kevin A.	Reg. No. 36,381
Brake, Edward	Reg. No. 37,784	Kluth, Daniel J.	Reg. No. 32,146	Sayles, Crystal D.	Reg. No. 44,318
Brennan, Thomas F.	Reg. No. 35,075	Lacy, Rodney L.	Reg. No. 41,136	Schumm, Sherry W.	Reg. No. 39,422
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Fantz, Cindy	Reg. No. 39,973	Narma, Prakash	Reg. No. 44,255	Wells, Calvin	Reg. No. 43,256
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Gagne, Christopher	Reg. No. 36,142	Nicholls, Dennis A.	Reg. No. 42,036	Winkle, Robert G.	Reg. No. 37,474
Gorrie, Gregory J.	Reg. No. 36,530	Nielsen, Walter W.	Reg. No. 25,539	Woessner, Warren D.	Reg. No. 30,440
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Greenberg, Robert A.	Reg. No. 44,133	Parker, J. K.	Reg. No. 33,024	Young, Charles K.	Reg. No. 39,435

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary. Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:  
**P.O. Box 2938, Minneapolis, MN 55402**  
**Telephone No. (612)373-6900**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : **Kalyan Muthukumar**  
 Citizenship: **United States of America** Residence: **Bangalore**  
 Post Office Address: **ChinarDefence Colony, Indiranagar**  
**Bangalore 560038**

Signature: Kalyan Muthukumar  
 Kalyan Muthukumar

Date: 10/27/03

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

Attorney Docket No.: 884.889US1  
Serial No. 10/612724  
Filing Date: June 30, 2003

Page 3 of 4

Full Name of joint inventor number 2 : Gautam Doshi  
Citizenship: United States of America Residence: Santa Clara, CA  
Post Office Address: 3819 Hancock Drive  
Santa Clara, CA 95051

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Gautam Doshi

Full Name of joint inventor number 3 : Dattatraya Kulkarni  
Citizenship: Canada Residence: Santa Clara, CA  
Post Office Address: 3480 Granada Avenue  
#308  
Santa Clara, CA 95051

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Dattatraya Kulkarni

Attorney Docket No.: 884.8891JS1  
Serial No. 10/612724  
Filing Date: June 30, 2003

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§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

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**United States Patent Application**  
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Full Name of joint inventor number 1 : **Kalvan Muthukumar**  
Citizenship: **United States of America** Residence: **Bangalore**  
Post Office Address: **ChinarDefence Colony, Indiranagar**  
**Bangalore 560038**


Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Kalyan Muthukumar

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

Full Name of joint inventor number 2 : **Gautam Doshi**  
Citizenship: **United States of America**  
Post Office Address: **3819 Hancock Drive**  
**Santa Clara, CA 95051**

Residence: **Santa Clara, CA**

Signature: \_\_\_\_\_

  
Gautam Doshi

Date: **Nov 5, 2003**

Full Name of joint inventor number 3 : **Dattatraya Kulkarni**  
Citizenship: **Canada**  
Post Office Address: **3480 Granada Avenue**  
**#308**  
**Santa Clara, CA 95051**

Residence: **Santa Clara, CA**

Signature: \_\_\_\_\_

Dattatraya Kulkarni

Date: \_\_\_\_\_

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(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
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- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

# United States Patent Application

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

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Chang, Robert	Reg. No. 48,765	Lin, Issac	Reg. No. 50,672	Seeley, Mark	Reg. No. 32,299
Chen, George	Reg. No. 50,807	Lundberg, Steven W.	Reg. No. 30,568	Shah, Ami P.	Reg. No. 42,143
Choi, Glen	Reg. No. 43,546	Lundmark, David C.	Reg. No. 42,815	Simon, David	Reg. No. 32,756
Clark, Barbara J.	Reg. No. 38,107	Maki, Peter C.	Reg. No. 42,832	Skabrat, Steve	Reg. No. 36,279
Clise, Timothy B.	Reg. No. 40,957	Malen, Peter L.	Reg. No. 44,894	Speier, Gary J.	Reg. No. 45,458
Cochran, David R.	Reg. No. 46,632	Martinez, Anthony	Reg. No. 44,223	Steffey, Charles E.	Reg. No. 25,179
Cool, Kenneth J.	Reg. No. 40,570	Mates, Robert E.	Reg. No. 35,271	Steiner, Paul E.	Reg. No. 41,326
Dahl, John M.	Reg. No. 44,639	McCrackin, Ann M.	Reg. No. 42,858	Stordal, Leif T.	Reg. No. 46,251
DeLizio, Andrew	Reg. No. 52,806	Mehrle, Joseph P.	Reg. No. 45,535	Stutman-Horn, Joni D.	Reg. No. 42,173
Dracger, Jeffrey S.	Reg. No. 41,000	Mennemeier, Larry	Reg. No. 51,003	Tong, Viet V.	Reg. No. 45,416
Drake, Eduardo E.	Reg. No. 40,594	Muller, Mark V.	Reg. No. 37,509	Tran, David	Reg. No. 50,804
Embretson, Janet E.	Reg. No. 39,665	Nagy, Paul	Reg. No. 37,896	Viksnins, Ann S.	Reg. No. 37,748
Faatz, Cindy	Reg. No. 39,973	Nama, Prakash	Reg. No. 44,255	Wells, Calvin	Reg. No. 43,256
Forrest, Bradley A.	Reg. No. 30,837	Nelson, A. James	Reg. No. 28,650	Willardson, Michael	Reg. No. 50,856
Gagne, Christopher	Reg. No. 36,142	Nicholls, Dennis A.	Reg. No. 42,036	Winkle, Robert G.	Reg. No. 37,474
Gorrie, Gregory J.	Reg. No. 36,530	Nielsen, Walter W.	Reg. No. 25,539	Woessner, Warren D.	Reg. No. 30,440
Greaves, John N.	Reg. No. 40,362	Padys, Danny J.	Reg. No. 35,635	Wong, Sharon	Reg. No. 37,760
Green, Sharmini N.	Reg. No. 41,410	Parker, Lanny	Reg. No. 44,281	Yates, Steven D.	Reg. No. 42,242
Greenberg, Robert A.	Reg. No. 44,133	Parker, J. K.	Reg. No. 33,024	Young, Charles K.	Reg. No. 39,435

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary. Please direct all correspondence in this case to **Schwegman, Lundberg, Woessner & Kluth, P.A.** at the address indicated below:  
**P.O. Box 2938, Minneapolis, MN 55402**  
**Telephone No. (612)373-6900**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Kalyan Muthukumar**

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

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Signature: \_\_\_\_\_  
Gautam Doshi

Date: \_\_\_\_\_

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Full Name of joint inventor number 3 : **Dattatraya Kulkarni**  
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#308  
~~Santa Clara~~, CA 95051

Residence: **Santa Clara, CA**

Signature:  \_\_\_\_\_  
Dattatraya Kulkarni

Date: 11/20/03

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§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.